# Mean, Median, Mode \& Range 

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## Vocabulary Review

# - Sum - the answer to an addition problem. 

- Addend - the numbers you added together to get the sum.



## Definition

$$
\begin{aligned}
& \text { Mean } \\
& \text { Means } \\
& \text { Average }
\end{aligned}
$$

## Definition

- Mean - the average of a group of numbers.
$2,5,2,1,5$
Mean $=3$


## Mean is found by evening out the numbers

$$
2,5,2,1,5
$$



Mean is found by evening out the numbers

$$
2,5,2,1,5
$$



Mean is found by evening out the numbers
$2,5,2,1,5$
mean $=3$


## How to Find the Mean of a Group of Numbers

- Step 1 - Add all the numbers.

$$
8,10,12,18,22,26
$$

$8+10+12+18+22+26=96$

# How to Find the Mean of a Group of Numbers 

- Step 2 - Divide the sum by the number of addends.

$$
8,10,12,18,22,26
$$

$8+10+12+18+22+26=96$
How many addends are there?

# How to Find the Mean of a Group of Numbers 

$$
\text { - Step } 2 \text { - Divide the sum by }
$$ the number of addends.

$$
\# \text { of addends } \longrightarrow 6 \longdiv { \frac { 1 6 } { 9 6 } } \text { sum }
$$

# How to Find the Mean of a Group of Numbers 

## The mean or average of these numbers is 16.

$8,10,12,18,22,26$

# What is the mean of these numbers? 


$=$

## What is the mean of these numbers?



## What is the mean of these numbers?



## What is the mean of these numbers?



## Definition

$$
\begin{aligned}
& \text { Median } \\
& \text { is in the } \\
& \text { Middle }
\end{aligned}
$$

## Definition

- Median - the middle number in a set of ordered numbers.

$$
\begin{gathered}
1,3,(7) 10,13 \\
\text { Median }=7
\end{gathered}
$$

## How to Find the Median in a Group of Numbers

## - Step 1 - Arrange the numbers

 in order from least to greatest.$$
21,18,24,19,27
$$

$$
18,19,21,24,27
$$

## How to Find the Median in a Group of Numbers

- Step 2 - Find the middle number.

$$
\begin{aligned}
& 21,18,24,19,27 \\
& 18,19,21,24,27
\end{aligned}
$$

# How to Find the Median in a Group of Numbers 

- Step 2 - Find the middle number.

$$
18,19,(21,24,27
$$

This is your median number.

## How to Find the Median in a Group of Numbers

- Step 3 - If there are two middle numbers, find the mean of these two numbers.

$$
18,19,21,25,27,28
$$

## How to Find the Median in a Group of Numbers

- Step 3 - If there are two middle numbers, find the mean of these two numbers.

$$
\begin{aligned}
& (21+25=46 \\
& 2 \longdiv { 2 3 } \leftrightarrows \text { median } \\
& 26
\end{aligned}
$$

# What is the median of these numbers? 



What is the median of these numbers?


## Definition

$$
\begin{aligned}
& \text { Mode } \\
& \text { is the most } \\
& \text { Popular }
\end{aligned}
$$

## Definition

- A la mode - the most popular or that which is in fashion.


Baseball caps are a la mode today.

## Definition

## - Mode - the number that

 appears most frequently in a set of numbers.$$
\begin{aligned}
& \text { 1. } 1,3,7,10,13 \\
& \text { Mode }=1
\end{aligned}
$$

## How to Find the Mode in a Group of Numbers

## - Step 1 - Arrange the numbers

 in order from least to greatest. $21,18,24,19,18$ $18,18,19,21,24$
## How to Find the Mode in a Group of Numbers

## - Step 2 - Find the number that

 is repeated the most.$$
\begin{aligned}
& 21,18,24,19,18 \\
& \text { (18.). 18. } 19,21,24
\end{aligned}
$$

## Which number is the mode?



## Which number is the mode?



## Which number is the mode?



## Definition

$$
\begin{aligned}
& \text { Range } \\
& \text { is the distance } \\
& \text { Between }
\end{aligned}
$$

## Definition

- Range - the difference between the greatest and the least value in a set of numbers. $1,3,7,10,13$

$$
\text { Range }=12
$$

## How to Find the Range in a Group of Numbers

## - Step 1 - Arrange the numbers

 in order from least to greatest. $21,18,24,19,27$$$
18,19,21,24,27
$$

# How to Find the Range in a Group of Numbers 

## - Step 2 - Find the lowest and highest numbers.

$$
21,18,24,19,27
$$

$$
\text { (18) } 19,21,24 \text {, (27) }
$$

# How to Find the Range in a Group of Numbers 

- Step 3 - Find the difference between these 2 numbers.

$$
\begin{aligned}
& \text { (18.) } 19,21,24,27) \\
& 27-18=9
\end{aligned}
$$

$$
\text { The range is } 9
$$

## What is the range?


$29-4=25$

## What is the range?


$32-21=11$


## What is the range?



$$
41-7=34
$$

## THANK YOU

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